

L Numb r	Hits	S arch T xt	DB	Time stamp
1	14	"865608"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/24 14:43
2	0	hamamoto-t\$.in	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/24 14:43
3	945	hamamoto-t\$.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/24 14:43
4	5	hamamoto-t\$.in. and biphenyl	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/24 14:44
5	1	2002-174961.NRAN.	DERWENT	2003/06/24 14:43
6	408	429/338.ccls. 429/339.ccls. 429/341.ccls. 429/342.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/24 14:45
7	10	(429/338.ccls. 429/339.ccls. 429/341.ccls. 429/342.ccls.) and biphenyl	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/24 14:47
8	39013	biphenyl	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/24 14:50
9	37409	biphenyl not (electrolyte or electrolytic)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/24 14:50
10	1604	biphenyl not (biphenyl not (electrolyte or electrolytic))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/24 14:51
11	123	(biphenyl not (biphenyl not (electrolyte or electrolytic))) and 429/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/24 14:52
12	12	"759641"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/24 14:57
13	1	1997-147632.NRAN.	DERWENT	2003/06/24 14:55
14	5	6074777.URPN.	USPAT	2003/06/24 14:56

15	1	6074777.URPN. and (biph nyl diph nyl)	USPAT; US-P PUB; EP ; JPO; DERWENT	2003/06/24 15:00
16	17	"2163187"	USPAT; US-P PUB; EPO; JPO; DERWENT	2003/06/24 15:22
18	114124	BIPHENYL DIPHENYL	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/24 16:23
19	368	(BIPHENYL DIPHENYL) AND H01M\$.IPC.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/24 15:38
20	123	(BIPHENYL DIPHENYL) AND H01M\$.IPC.	EPO; JPO; DERWENT	2003/06/24 15:54
21	1	2003-290775.NRAN.	DERWENT	2003/06/24 15:51
22	1	1987-044501.NRAN.	DERWENT	2003/06/24 15:52
23	1	4769115.pn.	USPAT	2003/06/24 15:54
24	1	4769115.pn. and (BIPHENYL DIPHENYL)	USPAT	2003/06/24 16:00
25	1	1990-211217.NRAN.	DERWENT	2003/06/24 15:59
26	1	4957833.pn.	USPAT	2003/06/24 16:00
27	1	4957833.pn. and (BIPHENYL DIPHENYL)	USPAT	2003/06/24 16:05
28	0	759641.URPN.	USPAT	2003/06/24 16:01
29	3	"06084523"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/24 16:22
30	1	1994-138686.NRAN.	DERWENT	2003/06/24 16:05
31	1	1999-087223.NRAN.	DERWENT	2003/06/24 16:10
32	1	1999-410013.NRAN.	DERWENT	2003/06/24 16:12
33	1	2002-174961.NRAN.	DERWENT	2003/06/24 16:15
34	13	"2059999"	USPAT; U -PGPUB; EP ; JP ; DERWENT; IBM_TDB	2003/06/24 16:22
36	29652	BIPHENYL DIPHENYL	EP ; JP ; DERWENT	2003/06/24 16:23

37	114001	(BIPHENYL DIPHENYL) n t ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)	USPAT; US-P PUB; EP ; JPO; DERWENT	2003/06/24 16:24
38	114001	((BIPHENYL DIPHENYL) n t ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999"	USPAT; US-P PUB; EPO; JPO; DERWENT	2003/06/24 16:24
39	109791	((((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/24 16:24
40	4210	((((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/24 16:27
41	1	((((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic))	EPO	2003/06/24 16:25
42	4209	((((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic))) not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic)))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/24 16:25
43	41	((((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic))) not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic)))	JPO	2003/06/24 16:25

48	290	<p> ((((((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) n t "2059999") n t (((BIPHENYL DIPHENYL) n t ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) n t "2059999") n t (l ctr lyte l ctr lytic))) n t (((BIPHENYL DIPHENYL) n t ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic)))) not (((((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic))) not (((((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic)))) not (((((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic)))) not (((((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic)))) not (((((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic)))) and 429/\$.ccls. </p>	USPAT; US-P PUB; EP ; JP ; DERWENT	2003/06/24 16:33
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49	276	<p> ((((((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") n t (((BIPHENYL DIPHENYL) n t ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) n t "2059999") n t (l ctr lyt lectr lytic))) not ((((BIPHENYL DIPHENYL) n t ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic)))) not ((((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic))) not ((((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic)))) not ((((((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic))) not ((((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic)))) not ((((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic)))) not ((((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic)))) and 252/\$.ccls. </p>	USPAT; US-P PUB; EP ; JP ; DERWENT	2003/06/24 16:38
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50	240	<p> (((((((BIPHENYL DIPHENYL) n t ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) n t "2059999") n t (((BIPHENYL DIPHENYL) n t ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) n t "2059999") n t (electr lyt electr lytic))) n t (((BIPHENYL DIPHENYL) n t ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic)))) not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic))) not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic)))) not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic))) not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic)))) not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic)))) not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic)))) and 429/\$.ccls.) not ((((((((((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (electrolyte electrolytic))) not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) not "2059999") not (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) n t "2059999") n t (l ctr lyte el ctr lytic)))) n t (((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) n t "2059999") not (((BIPHENYL DIPHENYL) n t ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) n t "2059999") not (electrolyte electrolytic))) not </p>	USPAT; US-P PUB; EPO; JP ; DERWENT	2003/06/24 16:38
S arch History	6/24/03 4:51:38 PM Page 2	(((((((BIPHENYL DIPHENYL) not ((BIPHENYL DIPHENYL) AND H01M\$.IPC.)) n t "2059999")		

51	8	(US-6048637-\$ r US-6033797-\$ r US-5891592-\$ or US-5750287-\$ or US-3793079-\$).did. r (JP-09073918-\$ r JP-10321258-\$ or JP-11162512-\$).did.	USPAT; JP	2003/06/24 16:51
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6/24/03

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YOU HAVE REQUESTED DATA FROM 43 ANSWERS - CONTINUE? Y/(N):y

L4 ANSWER 1 OF 43 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2003:436366 CAPLUS
DOCUMENT NUMBER: 138:385157
TITLE: Process for refining **biphenyl** used for
electrolyte of lithium-ion **battery**
INVENTOR(S): Ou, Xiuqin; Feng, Rui; Cheng, Yaoli; Zhang, Baopeng
PATENT ASSIGNEE(S): Tianjin Chemical Research & Design Inst., Peop. Rep.
China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 6 pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1343647	A	20020410	CN 2001-141440	20010925
PRIORITY APPLN. INFO.:			CN 2001-141440	20010925

L4 ANSWER 2 OF 43 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2003:430094 CAPLUS
TITLE: Influence of **electrolyte** additives on safety
and cycle life of rechargeable lithium cells
AUTHOR(S): Tobishima, S.; Ogino, Y.; Watanabe, Y.
CORPORATE SOURCE: Faculty of Engineering, Department of Chemistry, Gunma
University, 1-5-1 Tenjincho, Kiryu, Gunma, 376-8515,
Japan
SOURCE: Journal of Applied Electrochemistry (2003), 33(2),
143-150
CODEN: JAELEBJ; ISSN: 0021-891X
PUBLISHER: Kluwer Academic Publishers
DOCUMENT TYPE: Journal
LANGUAGE: English

L4 ANSWER 3 OF 43 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2003:241853 CAPLUS
DOCUMENT NUMBER: 138:257907
TITLE: Polymeric sol **electrolyte** having improved
reliability and safety for lithium **battery**
INVENTOR(S): Noh, Hyung-Gon
PATENT ASSIGNEE(S): Samsung SDI Co., Ltd., S. Korea
SOURCE: U.S. Pat. Appl. Publ., 13 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003059681	A1	20030327	US 2002-202060	20020725
JP 2003151633	A2	20030523	JP 2002-236920	20020815
PRIORITY APPLN. INFO.:			KR 2001-49594 A	20010817

L4 ANSWER 4 OF 43 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2003:236608 CAPLUS
DOCUMENT NUMBER: 138:404183
TITLE: Application of **biphenyl**
electropolymerization for overcharge protection in
Li-ion batteries

AUTHOR(S): Xiao, Li-fen; Ai, Xin-ping; Cao, Yu-liang; Yang, Han-xi
CORPORATE SOURCE: College of Chemistry & Molecular Science, Wuhan University, Wuhan, 430072, Peop. Rep. China
SOURCE: Dianhuaxue (2003), 9(1), 23-29
CODEN: DIANFX; ISSN: 1006-3471
PUBLISHER: Dianhuaxue Bianjibu
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

L4 ANSWER 5 OF 43 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2003:172102 CAPLUS
DOCUMENT NUMBER: 138:240594
TITLE: Liquid crystal **electrolyte** and secondary **battery**.
INVENTOR(S): Nakamura, Shinichi; Igawa, Satoshi
PATENT ASSIGNEE(S): Canon Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003068357	A2	20030307	JP 2001-255157	20010824
PRIORITY APPLN. INFO.:			JP 2001-255157	20010824

L4 ANSWER 6 OF 43 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2003:56664 CAPLUS
DOCUMENT NUMBER: 138:109598
TITLE: Secondary nonaqueous-**electrolyte** **battery** containing aromatic additive for conducting polymer generation
INVENTOR(S): Kozuki, Kiyomi; Hojo, Nobuhiko; Morikawa, Norimoto; Eda, Nobuo
PATENT ASSIGNEE(S): Matsushita Electric Industrial Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003022838	A2	20030124	JP 2001-207502	20010709
PRIORITY APPLN. INFO.:			JP 2001-207502	20010709

L4 ANSWER 7 OF 43 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2003:56358 CAPLUS
DOCUMENT NUMBER: 138:124971
TITLE: Polymer liquid crystals, electrolytes containing them, and their use in secondary batteries
INVENTOR(S): Nakamura, Shinichi; Igawa, Satoshi
PATENT ASSIGNEE(S): Canon Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 26 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003020479	A2	20030124	JP 2001-206977	20010706
PRIORITY APPLN. INFO.:			JP 2001-206977	20010706

L4 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:871625 CAPLUS
 DOCUMENT NUMBER: 138:124937
 TITLE: Influence of additives in **electrolyte** solutions on safety and cycle life of lithium cells
 AUTHOR(S): Tobishima, Shin-ichi; Ogino, Yoshihiko; Watanabe, Yu
 CORPORATE SOURCE: Department of Chemistry, Faculty of Engineering, Gunma University, 1-5-1-Tenjin-cho, Kiryu, Gunma, 376-8515, Japan
 SOURCE: Electrochemistry (Tokyo, Japan) (2002), 70(11), 875-879
 CODEN: EECTFA; ISSN: 1344-3542
 PUBLISHER: Electrochemical Society of Japan
 DOCUMENT TYPE: Journal
 LANGUAGE: Japanese

L4 ANSWER 9 OF 43 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:812212 CAPLUS
 DOCUMENT NUMBER: 137:327425
 TITLE: Nonaqueous **electrolyte** secondary **battery** with **electrolyte** comprising **biphenyl** and cyclohexyl benzene
 INVENTOR(S): Hiramura, Yasuaki
 PATENT ASSIGNEE(S): GS-Melcotec Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002313415	A2	20021025	JP 2001-112645	20010411
PRIORITY APPLN. INFO.:			JP 2001-112645	20010411

L4 ANSWER 10 OF 43 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:773830 CAPLUS
 DOCUMENT NUMBER: 137:297372
 TITLE: Cathode active mass for nonaqueous **electrolyte** **battery** and its manufacture
 INVENTOR(S): Takahashi, Kentaro
 PATENT ASSIGNEE(S): Sanyo Electric Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002298847	A2	20021011	JP 2001-101275	20010330
PRIORITY APPLN. INFO.:			JP 2001-101275	20010330

L4 ANSWER 11 OF 43 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:736752 CAPLUS
 DOCUMENT NUMBER: 137:265678
 TITLE: High ionic conductivity gel polymer

INVENTOR(S): **electrolyte** for rechargeable polymer batteries
Park, Chi-Kyun; Zhang, Zhiwei; Sun, Lu Ying; Chai,
Chul
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 9 pp., Cont.-in-part of U.S.
Ser. No. 760,720.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002136959	A1	20020926	US 2001-986459	20011108
US 2002136958	A1	20020926	US 2001-760720	20010117
EP 1225649	A2	20020724	EP 2001-310592	20011219
EP 1225649	A3	20020807		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
CN 1367201	A	20020904	CN 2002-101700	20020117
PRIORITY APPLN. INFO.:			US 2001-760720	A2 20010117
			US 2001-986459	A 20011108

L4 ANSWER 12 OF 43 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:734307 CAPLUS
DOCUMENT NUMBER: 137:265635
TITLE: Nonaqueous **electrolyte** secondary
battery with improved separator and
electrolyte containing additive increasing
resistance to overcharge
INVENTOR(S): Kuranaka, Satoshi; Kozuki, Kiyomi; Takahashi, Shozo;
Bito, Yasuhiko; Eda, Nobuo
PATENT ASSIGNEE(S): Matsushita Electric Industrial Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002280068	A2	20020927	JP 2001-79931	20010321
PRIORITY APPLN. INFO.:			JP 2001-79931	20010321

L4 ANSWER 13 OF 43 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:714433 CAPLUS
DOCUMENT NUMBER: 137:250260
TITLE: Secondary nonaqueous **electrolyte**
battery
INVENTOR(S): Kuranaka, Satoshi; Bito, Yasuhiko; Kouduki, Kiyomi;
Takahashi, Shozo; Eda, Nobuo
PATENT ASSIGNEE(S): Matsushita Electric Industrial Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002270223	A2	20020920	JP 2001-63065	20010307

PRIORITY APPLN. INFO.:

JP 2001-63065

20010307

L4 ANSWER 14 OF 43 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:693419 CAPLUS

DOCUMENT NUMBER: 137:219563

TITLE: Nonaqueous **electrolyte** solution and
secondary lithium **battery** using the solution

INVENTOR(S): Ueki, Akira; Abe, Hiroshi

PATENT ASSIGNEE(S): Ube Industries, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002260725	A2	20020913	JP 2001-61156	20010306
PRIORITY APPLN. INFO.:			JP 2001-61156	20010306
OTHER SOURCE(S):		MARPAT 137:219563		

L4 ANSWER 15 OF 43 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:693347 CAPLUS

DOCUMENT NUMBER: 137:204003

TITLE: Secondary **battery** with nonaqueous
electrolyte containing aromatic compoundINVENTOR(S): Kozuki, Kiyomi; Eda, Nobuo; Takahashi, Shozo; Bito,
Yasuhiko; Kuranaka, Satoshi

PATENT ASSIGNEE(S): Matsushita Electric Industrial Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002260627	A2	20020913	JP 2001-59610	20010305
PRIORITY APPLN. INFO.:			JP 2001-59610	20010305

L4 ANSWER 16 OF 43 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:693346 CAPLUS

DOCUMENT NUMBER: 137:204002

TITLE: Secondary **battery** with nonaqueous
electrolyte containing aromatic compoundINVENTOR(S): Koduki, Kiyomi; Bito, Yasuhiko; Takahashi, Shozo; Eda,
Nobuo; Kuranaka, Satoshi

PATENT ASSIGNEE(S): Matsushita Electric Industrial Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002260626	A2	20020913	JP 2001-59609	20010305
PRIORITY APPLN. INFO.:			JP 2001-59609	20010305

L4 ANSWER 17 OF 43 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:575418 CAPLUS

DOCUMENT NUMBER: 137:143036
TITLE: Nonaqueous electrolyte solution and secondary lithium battery
INVENTOR(S): Abe, Koji; Matsumori, Yasuo; Ueki, Akira
PATENT ASSIGNEE(S): Ube Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 30 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002059999	A1	20020801	WO 2002-JP518	20020124
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2002298909	A2	20021011	JP 2002-1107	20020108
JP 2002298910	A2	20021011	JP 2002-1108	20020108
PRIORITY APPLN. INFO.: JP 2001-15466 A 20010124 JP 2001-15467 A 20010124				
OTHER SOURCE(S): MARPAT 137:143036				
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L4 ANSWER 18 OF 43 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:522266 CAPLUS
DOCUMENT NUMBER: 137:81379
TITLE: Nonaqueous electrolyte secondary battery
INVENTOR(S): Watanabe, Shoichiro; Ohira, Noriyuki
PATENT ASSIGNEE(S): Matsushita Electric Industrial Co., Ltd., Japan; Ube Industries, Ltd.
SOURCE: PCT Int. Appl., 31 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002054524	A1	20020711	WO 2001-JP10655	20011205
W: CN, JP, KR, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
EP 1256995	A1	20021113	EP 2001-272801	20011205
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
US 2003091892	A1	20030515	US 2002-203237	20020806
PRIORITY APPLN. INFO.: JP 2000-402935 A 20001228 WO 2001-JP10655 W 20011205				
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L4 ANSWER 19 OF 43 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:294035 CAPLUS
DOCUMENT NUMBER: 136:328162
TITLE: Nonaqueous **battery electrolyte**
solution and the **battery**
INVENTOR(S): Watanabe, Shoichiro; Goto, Shusaku; Takagi, Masaru;
Ishida, Sumihito; Hamamoto, Toshikazu; Ueki, Akira;
Abe, Koji
PATENT ASSIGNEE(S): Matsushita Electric Industrial Co., Ltd., Japan; Ube
Industries, Ltd.
SOURCE: PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002031904	A1	20020418	WO 2001-JP7434	20010829
W: CN, KR, US RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
JP 2002117895	A2	20020419	JP 2000-311626	20001012
PRIORITY APPLN. INFO.:			JP 2000-311626	A 20001012
REFERENCE COUNT:	5	THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L4 ANSWER 20 OF 43 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:932814 CAPLUS
DOCUMENT NUMBER: 136:56423
TITLE: Secondary lithium **battery**
INVENTOR(S): Shimizu, Takehiro; Kuratomi, Itaru; Tatsumi, Kuniaki;
Sakai, Tetsuo
PATENT ASSIGNEE(S): Nippon Steel Chemical Co., Ltd., Japan; Sangyo Gijutsu
Sogo Kenkyusho
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001357876	A2	20011226	JP 2000-177052	20000613
PRIORITY APPLN. INFO.:			JP 2000-177052	20000613

L4 ANSWER 21 OF 43 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:868036 CAPLUS
DOCUMENT NUMBER: 136:9084
TITLE: Nonaqueous **electrolyte** solution and
secondary lithium **battery** thereof
INVENTOR(S): Hamamoto, Shunichi; Abe, Hiroshi; Ueki, Akira
PATENT ASSIGNEE(S): Ube Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001332297	A2	20011130	JP 2000-154471	20000525

CN 1326238 A 20011212 CN 2001-122163 20010525
US 2002001756 A1 20020103 US 2001-865608 20010525
PRIORITY APPLN. INFO.: JP 2000-154471 A 20000525
OTHER SOURCE(S): MARPAT 136:9084

L4 ANSWER 22 OF 43 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:564134 CAPLUS
DOCUMENT NUMBER: 135:125034
TITLE: nonaqueous **electrolyte** solutions and
secondary batteries using the solutions
INVENTOR(S): Okahara, Kenji; Ishigaki, Kenichi; Toriumi, Akiko
PATENT ASSIGNEE(S): Mitsubishi Chemical Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001210364	A2	20010803	JP 2000-16820	20000126
PRIORITY APPLN. INFO.:			JP 2000-16820	20000126
OTHER SOURCE(S):		MARPAT 135:125034		

L4 ANSWER 23 OF 43 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:338229 CAPLUS
DOCUMENT NUMBER: 134:329091
TITLE: Secondary nonaqueous **electrolyte** batteries
INVENTOR(S): Ozaki, Hiroki; Kogure, Masanori; Aoki, Takashi
PATENT ASSIGNEE(S): Gs-Melcotec Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001126765	A2	20010511	JP 1999-304142	19991026
JP 3380501	B2	20030224		
PRIORITY APPLN. INFO.:			JP 1999-304142	19991026

L4 ANSWER 24 OF 43 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:185833 CAPLUS
DOCUMENT NUMBER: 134:223194
TITLE: Ionically conductive polymers containing boron atoms
useful for polymer electrolytes and electrical devices
INVENTOR(S): Nishiura, Masahito; Kono, Michiyuki; Watanabe,
Masayoshi
PATENT ASSIGNEE(S): Dai-Ichi Kogyo Seiyaku Co., Ltd., Japan
SOURCE: PCT Int. Appl., 58 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001018094	A1	20010315	WO 2000-JP5811	20000828
W: CA, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,				

US A1 det

PT, SE				
JP 2001072875	A2	20010321	JP 1999-248887	19990902
JP 2001072876	A2	20010321	JP 1999-248888	19990902
JP 2001072877	A2	20010321	JP 1999-248889	19990902
JP 2001131246	A2	20010515	JP 1999-318000	19991109
CA 2344204	AA	20010315	CA 2000-2344204	20000828
EP 1160268	A1	20011205	EP 2000-955080	20000828

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI

PRIORITY APPLN. INFO.:

JP 1999-248887	A	19990902
JP 1999-248888	A	19990902
JP 1999-248889	A	19990902
JP 1999-318000	A	19991109
WO 2000-JP5811	W	20000828

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 25 OF 43 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:31794 CAPLUS

DOCUMENT NUMBER: 134:103242

TITLE: Secondary nonaqueous **electrolyte** batteries
and devices using the batteries

INVENTOR(S): Watanabe, Shoichiro; Iwamoto, Kazuya; Ueda, Atsushi;
Nunome, Jun; Koshina, Hizuru

PATENT ASSIGNEE(S): Matsushita Electric Industrial Co., Ltd., Japan

SOURCE: PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001003226	A1	20010111	WO 2000-JP4291	20000629
W: CN, KR, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 2001015158	A2	20010119	JP 1999-184931	19990630
JP 2002050398	A2	20020215	JP 2001-166615	19990630
EP 1215745	A1	20020619	EP 2000-940876	20000629
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				

PRIORITY APPLN. INFO.:

JP 1999-184931	A	19990630
WO 2000-JP4291	W	20000629

OTHER SOURCE(S): MARPAT 134:103242

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 26 OF 43 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:377134 CAPLUS

DOCUMENT NUMBER: 132:350299

TITLE: Nonaqueous **electrolyte** batteries

INVENTOR(S): Kita, Akinori; Satori, Kotaro; Komaru, Atsuo;
Takahashi, Akio

PATENT ASSIGNEE(S): Sony Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 27 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2000156243 A2 20000606 JP 1998-328506 19981118
PRIORITY APPLN. INFO.: JP 1998-328506 19981118
OTHER SOURCE(S): MARPAT 132:350299

L4 ANSWER 27 OF 43 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1999:522372 CAPLUS
DOCUMENT NUMBER: 131:132351
TITLE: Improved additives for overcharge protection in
 nonaqueous rechargeable lithium batteries
INVENTOR(S): Reimers, Jan Naess; Way, Brian Michael
PATENT ASSIGNEE(S): Moli Energy (1990) Limited, Can.
SOURCE: Can. Pat. Appl., 19 pp.
 CODEN: CPXXEB
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 2216898	AA	19990326	CA 1997-2216898	19970926
US 6074777	A	20000613	US 1998-30252	19980225
JP 11162512	A2	19990618	JP 1998-270961	19980925

PRIORITY APPLN. INFO.: CA 1997-2216898 A 19970926

L4 ANSWER 28 OF 43 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1999:213180 CAPLUS
DOCUMENT NUMBER: 130:211761
TITLE: Boron trifluoride as an **electrolyte** additive
 for improving cycle life of nonaqueous rechargeable
 lithium batteries
INVENTOR(S): Wang, Yu; Zhang, Meijie; Von Sacken, Ulrich; Way,
 Brian Michael
PATENT ASSIGNEE(S): Moli Energy (1990) Limited, Can.
SOURCE: Eur. Pat. Appl., 18 pp.
 CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 903798	A1	19990324	EP 1998-108301	19980507
EP 903798	B1	20011017		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 6045948	A	20000404	US 1998-33707	19980303
JP 11149943	A2	19990602	JP 1998-260456	19980914

PRIORITY APPLN. INFO.: CA 1997-2215756 A 19970918
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 29 OF 43 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:764156 CAPLUS
DOCUMENT NUMBER: 130:15816
TITLE: Polymerizable additives for making secondary
 nonaqueous lithium-ion batteries safe after overcharge
INVENTOR(S): Mao, Huanyu; Wainwright, David Stanley
PATENT ASSIGNEE(S): Moli Energy (1990) Limited, Can.
SOURCE: Eur. Pat. Appl., 13 pp.
 CODEN: EPXXDW
DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 878861	A1	19981118	EP 1997-310625	19971224
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CA 2205683	AA	19981116	CA 1997-2205683	19970516
CA 2205683	C	20010515		
US 6074776	A	20000613	US 1998-6015	19980112
PRIORITY APPLN. INFO.:		CA 1997-2205683 A 19970516		
REFERENCE COUNT: 6		THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L4 ANSWER 30 OF 43 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:259614 CAPLUS
DOCUMENT NUMBER: 128:310520
TITLE: Button-type secondary nonaqueous-electrolyte
batteries
INVENTOR(S): Ito, Miho
PATENT ASSIGNEE(S): Nippondenso Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10112333	A2	19980428	JP 1996-263216	19961003
PRIORITY APPLN. INFO.:		JP 1996-263216 19961003		

L4 ANSWER 31 OF 43 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:154555 CAPLUS
DOCUMENT NUMBER: 128:194725
TITLE: Secondary nonaqueous electrolyte lithium
batteries
INVENTOR(S): Tsukahara, Jiro; Negoro, Masayuki; Okazaki, Masaki;
Ishizuka, Hiroshi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10064591	A2	19980306	JP 1996-224196	19960826
PRIORITY APPLN. INFO.:		JP 1996-224196 19960826		
OTHER SOURCE(S):		MARPAT 128:194725		

L4 ANSWER 32 OF 43 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1997:443251 CAPLUS
DOCUMENT NUMBER: 127:68580
TITLE: Aromatic monomer gassing agents for protecting
nonaqueous lithium batteries against overcharge
INVENTOR(S): Mao, Huanyu; Von Sacken, Ulrich
PATENT ASSIGNEE(S): Moli Energy (1990) Limited, Can.
SOURCE: Eur. Pat. Appl., 13 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 776058	A2	19970528	EP 1996-115490	19960926
EP 776058	A3	19980722		
EP 776058	B1	20010829		
R: DE, FR, GB				
CA 2163187	AA	19970518	CA 1995-2163187	19951117
US 5776627	A	19980707	US 1996-728274	19961008
JP 09171840	A2	19970630	JP 1996-304894	19961115
JP 3061759	B2	20000710		
US 6033797	A	20000307	US 1998-31278	19980227

PRIORITY APPLN. INFO.:

CA 1995-2163187	A	19951117
US 1996-728274	A3	19961008

L4 ANSWER 33 OF 43 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1997:257375 CAPLUS

DOCUMENT NUMBER: 126:240724

TITLE: Polymerizable aromatic additives for overcharge protection in secondary nonaqueous lithium batteries

INVENTOR(S): Mao, Huanyu

PATENT ASSIGNEE(S): Moli Energy (1990) Limited, Can.

SOURCE: Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 759641	A1	19970226	EP 1996-305460	19960725
R: DE, FR, GB				
CA 2156800	AA	19970224	CA 1995-2156800	19950823
US 5879834	A	19990309	US 1996-681171	19960722
JP 09106835	A2	19970422	JP 1996-213517	19960813
JP 3061756	B2	20000710		

PRIORITY APPLN. INFO.:

CA 1995-2156800	A	19950823
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L4 ANSWER 34 OF 43 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1996:87043 CAPLUS

DOCUMENT NUMBER: 124:122121

TITLE: Superabsorbent polymer electrolytes for battery and battery using them

INVENTOR(S): Zhang, Jinshan; Venugopal, Ganesh

PATENT ASSIGNEE(S): Motorola Inc., USA

SOURCE: PCT Int. Appl., 18 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9533286	A1	19951207	WO 1995-US5923	19950511
W: CA, CN, JP, KR, MX				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5645958	A	19970708	US 1994-251066	19940531

PRIORITY APPLN. INFO.:

US 1994-251066

19940531

L4 ANSWER 35 OF 43 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1995:594341 CAPLUS

DOCUMENT NUMBER: 122:318694

TITLE: Solid-state battery containing
proton-donating aromatic compound

INVENTOR(S): Fleischer, Niles A.

PATENT ASSIGNEE(S): E.C.R - Electro-Chemical Research Ltd., Israel

SOURCE: PCT Int. Appl., 25 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9507555	A1	19950316	WO 1994-US9692	19940823
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, UZ, VN				
RW: KE, MW, SD, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5382481	A	19950117	US 1993-128497	19930907
US 5512391	A	19960430	US 1994-208326	19940502
AU 9476757	A1	19950327	AU 1994-76757	19940823
AU 697834	B2	19981015		
EP 804815	A1	19971105	EP 1994-927254	19940823
R: DE, FR, GB, IT, SE				
JP 3068853	B2	20000724	JP 1995-508706	19940823
JP 09508487	T2	19970826		
FI 9601072	A	19960307	FI 1996-1072	19960307
CA 2235708	AA	19980402	CA 1997-2235708	19970923
WO 9813887	A1	19980402	WO 1997-US16901	19970923
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9746487	A1	19980417	AU 1997-46487	19970923
EP 868756	A1	19981007	EP 1997-945238	19970923
R: DE, DK, FR, GB, IT, NL, SE, FI				
JP 2002507310	T2	20020305	JP 1998-515795	19970923
US 2002122980	A1	20020905	US 2001-846680	20010501
PRIORITY APPLN. INFO.:			US 1993-128497	A 19930907
			US 1994-208326	A 19940502
			WO 1994-US9692	W 19940823
			US 1995-399017	A 19950306
			US 1996-718833	A 19960924
			WO 1997-US16901	W 19970923
			US 1998-68864	A1 19980519

L4 ANSWER 36 OF 43 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1994:195803 CAPLUS

DOCUMENT NUMBER: 120:195803

TITLE: Study of phosphorus containing carbonaceous materials
for an anode of lithium secondary batteries

AUTHOR(S): Omaru, A.; Azuma, H.; Aoki, M.; Kita, A.; Nishi, Y.

CORPORATE SOURCE: R D Div., Sony Corp., Tokyo, 141, Japan

SOURCE: Proceedings - Electrochemical Society (1993),

93-24(Proceeding of the Symposium on Lithium
Batteries, 1992), 21-31
CODEN: PESODO; ISSN: 0161-6374

DOCUMENT TYPE: Journal
LANGUAGE: English

L4 ANSWER 37 OF 43 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1991:495922 CAPLUS
DOCUMENT NUMBER: 115:95922
TITLE: Cathodes from ninhydrin derivatives for secondary
lithium batteries
INVENTOR(S): Doege, Hans Georg; Bartl, Anton; Froehner, Juergen;
Domschke, Guenter; Brackmann, Ernst; Wolf, Ruediger;
Lehmann, Gert; Wuckel, Lothar; Fehrmann, Gerd
PATENT ASSIGNEE(S): Akademie der Wissenschaften der DDR, Germany
SOURCE: Ger. (East), 3 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 288487	A5	19910328	DD 1989-333466	19891010
PRIORITY APPLN. INFO.:			DD 1989-333466	19891010
OTHER SOURCE(S):		MARPAT 115:95922		

L4 ANSWER 38 OF 43 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1991:131819 CAPLUS
DOCUMENT NUMBER: 114:131819
TITLE: Membrane divided aqueous/nonaqueous system for
electrochemical cells
INVENTOR(S): Mazur, Duane J.; Weinberg, Norman L.
PATENT ASSIGNEE(S): Sandpiper, A. L., Corp., USA
SOURCE: U.S., 9 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4968393	A	19901106	US 1988-182907	19880418
PRIORITY APPLN. INFO.:			US 1988-182907	19880418

L4 ANSWER 39 OF 43 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1985:211583 CAPLUS
DOCUMENT NUMBER: 102:211583
TITLE: **Battery** cathode
PATENT ASSIGNEE(S): NEC Home Electronics, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59211961	A2	19841130	JP 1983-86362	19830516
PRIORITY APPLN. INFO.:			JP 1983-86362	19830516

L4 ANSWER 40 OF 43 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1985:152223 CAPLUS
 DOCUMENT NUMBER: 102:152223
 TITLE: Batteries
 PATENT ASSIGNEE(S): Showa Denko K. K., Japan; Hitachi, Ltd.
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59196568	A2	19841107	JP 1983-69933	19830422
PRIORITY APPLN. INFO.:			JP 1983-69933	19830422

L4 ANSWER 41 OF 43 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1985:152222 CAPLUS
 DOCUMENT NUMBER: 102:152222
 TITLE: Batteries
 PATENT ASSIGNEE(S): Showa Denko K. K., Japan; Hitachi, Ltd.
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59196573	A2	19841107	JP 1983-69938	19830422
PRIORITY APPLN. INFO.:			JP 1983-69938	19830422

L4 ANSWER 42 OF 43 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1970:483273 CAPLUS
 DOCUMENT NUMBER: 73:83273
 TITLE: Deep submergence storage battery
 INVENTOR(S): Nishimura, Motoharu
 PATENT ASSIGNEE(S): Yuasa Battery Co., Ltd.
 SOURCE: U.S., 2 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3515592	A	19700602	US 1968-759140	19680911
PRIORITY APPLN. INFO.:			US 1968-759140	19680911

L4 ANSWER 43 OF 43 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1961:47464 CAPLUS
 DOCUMENT NUMBER: 55:47464
 ORIGINAL REFERENCE NO.: 55:9119d-f
 TITLE: Storage batteries
 INVENTOR(S): Lockwood, Lee J.
 PATENT ASSIGNEE(S): Ray-O-Vac Co.
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.

KIND

DATE

APPLICATION NO. DATE

DE 1004690

19570321

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